

# EXTREME TEMPERATURES

## Technical Data Sheet



# NOMEX®

- Soft, Pliable And Strong
- Exceptional Thermal Stability
- Protects To 662°F
- Resists Gasoline And Engine Chemicals
- Cut And Abrasion Resistant



**Cut Cleanly  
Scissors**

### Material

Polyaramid Polymetaphenylene Isophthalamide

### Grade

NXN

### Drawing Number

TF001NX-WD

### Put-Ups

| Nominal Size | Part #  | Expansion Range |        | Bulk Spool | Shop Spool | Retail | Bag | Available Colors | Lbs/ 100' |
|--------------|---------|-----------------|--------|------------|------------|--------|-----|------------------|-----------|
|              |         | Min.            | Max.   |            |            |        |     |                  |           |
| 1/8"         | NXN0.13 | 1/16"           | 1/4"   | 100'       | 25'        | 15'    | 10' | 2                | 0.12      |
| 1/4"         | NXN0.25 | 1/8"            | 5/16"  | 100'       | 25'        | 15'    | 10' | 2                | 0.50      |
| 5/16"        | NXN0.31 | 7/32"           | 7/16"  | 100'       | 25'        | 15'    | 10' | 2                | 0.60      |
| 3/8"         | NXN0.38 | 1/4"            | 1/2"   | 100'       | 25'        | 15'    | 10' | 2                | 0.67      |
| 1/2"         | NXN0.50 | 5/16"           | 5/8"   | 100'       | 25'        | 15'    | 10' | 2                | 0.91      |
| 5/8"         | NXN0.63 | 7/16"           | 7/8"   | 100'       | 25'        | 15'    | 10' | 2                | 1.10      |
| 3/4"         | NXN0.75 | 9/16"           | 1"     | 100'       | 25'        | 15'    | 10' | 2                | 1.34      |
| 1"           | NXN1.00 | 3/4"            | 1 1/8" | 100'       | 25'        | 15'    | 10' | 2                | 2.42      |
| 1 1/4"       | NXN1.25 | 1"              | 1 1/2" | 100'       | 25'        | 15'    | 10' | 2                | 3.49      |
| 1 1/2"       | NXN1.50 | 1 1/4"          | 1 3/4" | 100'       | 25'        | 15'    | 10' | 2                | 4.03      |
| 1 3/4"       | NXN1.75 | 1 1/2"          | 2"     | 100'       | 25'        | 15'    | 10' | 2                | 4.76      |

## Soft, Pliable Flame Protection To 662°F

Woven Nomex® clothing and protective gear has been used for years by race car drivers, municipal fire departments and oil rig personnel to provide that extra level of comfort and protection from the dangers that come with working in and around intense flame and heat. Our NX Nomex® sleeving will do the same for your wires, hoses and cables.

NX Nomex® will protect your application in temperatures up to 662° F. It is unaffected by short term exposure to most acids, bases, solvents and common engineering chemicals. Despite the soft touch and smooth appearance associated with woven aramid fibers, NX is incredibly strong, with a tensile strength of 90,000 psi.

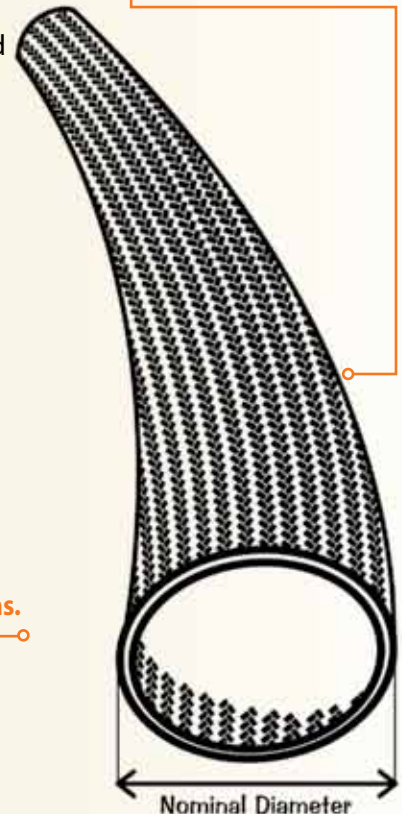
**Provides full coverage and protection on even the most exposed applications. Cuts easily with regular scissors and the smooth surface eases installation even over long wire runs. The construction allows slight expansion to accommodate irregular surfaces and tight turns.**

**Colors Available:**  
2 = GN and NT.

Colors Available:



Green (GN) and Natural (NT).



[www.techflex.com](http://www.techflex.com)

800.323.5140 • 973.300.9242 • fax: 973.300.9409  
29 Brookfield Dr • Sparta, NJ 07871

**HALOGEN  
FREE**



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# NOMEX®



**Abrasion Resistance**  
**Low**

**Abrasion Test Machine**  
**Taber 5150**

**Abrasion Test Wheel**  
**Calibrase H-18**

**Abrasion Test Load**  
**500g**

**Room Temperature**  
**80°F**

**Humidity**  
**70%**

**Material Very Visibly**  
**Being Pulled Apart**  
**25 Test Cycles**

**Hole Through**  
**Material Destroyed**  
**350 Test Cycles**

**Pre-Test Weight**  
**2271.03 mg**

**Post-Test Weight**  
**2097.67 mg**

**Test End Loss Of Mass**  
**Point Of Destruction**  
**173.36 mg**



**Does Not Melt or Flow Below**  
**662°F/350°C**

*Retains its integrity at temperatures over 489°F/254°C (the melting point of Nylon) or in presence of Beta, Gamma and X-Ray Radiation or when exposed to High Humidity or Moisture.*



## Chemical Resistance

1=No Effect    4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

Strong Bases \_\_\_\_\_ 1  
Strong Acids \_\_\_\_\_ 2  
Strong Oxidants \_\_\_\_\_ 2  
UV Light \_\_\_\_\_ 2  
Petroleum \_\_\_\_\_ 1  
Halogen Free \_\_\_\_\_ Yes  
RoHS \_\_\_\_\_ Yes

**Melt Point**  
*ASTM D-2117*  
**662°F (350°C)**

**Maximum Continuous**  
*Mil-I-23053*  
**428°F (220°C)**

**Minimum Continuous**  
**-76°F (-60°C)**



## PHYSICAL PROPERTIES

Monofilament Diameter \_\_\_\_\_ NA  
*ASTM D-204*  
Flammability Rating\_Self Extinguishing  
*FMVSS-302 Approved*  
Recommended Cutting \_\_\_\_\_ Scissor  
Colors \_\_\_\_\_ 2  
Wall Thickness \_\_\_\_\_ .016  
Tensile Strength (Yarn) \_\_\_\_\_ 8  
*ASTM D-2256 Lbs*  
Specific Gravity *ASTM D-792* \_\_\_\_\_ 1.38  
Moisture Absorption \_\_\_\_\_ 4  
*% ASTM D-570*  
Hard Vacuum Data *ASTM E-595*  
TML \_\_\_\_\_ 3.94  
CVCN \_\_\_\_\_ .18  
WVR \_\_\_\_\_ 2.91  
Oxygen Index \_\_\_\_\_ 28  
*ASTM D-2863*